567/65-58-11-9/15

Characteristics of Behaviour of Sulphur of Irkutsk Coals During Their Separation in Heavy Liquids.

phur in this type of coal is less thermostable. There are 3 Figures, 5 Tables and 8 Soviet References.

ASSOCIATION: Irkutskiy gosudarstvennyy universitet (Irkutsk State University)

Card 4/4

SAVITSKIY, Ye.M.; TYLKINA, M.A.; KHAMIDOV, O.Kh.; Prinimali uchastiye: LOBYNTSEVA, I.M.; PRAVOVEROV, N.L.; POLYAKOVA, V.P.

Palladium-molybdenum system. Zhur. neorg. khim. 9 no.12:2738-2742 D'64. (MIRA 18:2)

ACCESSION NR: A 4047636 EWA(a)/EWP(t)/S/0000/64/000/000/0395/0407

AUTHOR: Savitskiy, Ye. M.; Ty*lkina, M. A.; Polyakova, V. P.; Tsy*ganova, I. A.; Kopetskiy, Ch. V.

TITLE: Alloys of palladium with tungs(en, rhenium, osmius, and iridium

SOURCE: Vsesoyuznoye soveshchaniye po elektricheskim kontaktam i kontaktny*m materialam. 3d, Moscow, 1962. Elektricheskiye kontakty* (Electric contacts); trudy* soveshchaniya. Moscow, Izd-vo Energiya, 1964, 395-407

TOPIC TAGS: palladium alloy, Pd-W, Pd-Re, Pd-Os, Pd-Ir

ABSTRACT: The results of an investigation of the physico-chemical interaction of Pa with W, Re, Os, and Ir are reported; four double constitution diagrams have been constructed; also, a triple diagram Pa-W-Re has been constructed; some characteristics of the above alloys have been investigated. With the above 4 metals, Pd forms most simple diagrams with 2 limited solid solutions. No

Card 1/2

L 12988-65

ACCESSION NR: AT4047630

 ψ

chemical compound was detected. All these metals increase the Pd melting point; W is particularly effective in this respect: with 20% W, the alloy melting point is 2,000C and the peritectic-reaction point is 2,175C. The microstructure, hardness, and effect of thermal treatment of the above alloys were investigated. Resistivity was measured at 25 and 100C; all additions increase the resistivity of Pd; a Pd+20% W alloy has 107-110 microhms-cm and a temperature coefficient of (4.5-7) x 10⁻⁵; coupled with Cu, this corrosion-resistant alloy develops 3.9 microvolt/degree; its ultimate strength, 65 kr/mm, with elongation up to 30%. Orig. art. has: 10 figures and 1 table.

ASSOCIATION: Institut metallurgii im. A. A. Baykova

Institute of

Metallurgy)

SUE MITTED: 13Jul64

ENCL: 00

SUE CODE: MM, EE

NO REF SOV: 000

OTHER: 000

Cord 2/2

KOSHELEV, I.I., kand.tekhn.nauk; ESKIN, N.B., inzh.; TARATUTA, V.A., inzh.; KAPCHITS, D.A., inzh.; ABRYUTINA, N.V., inzh.; POLYAKOVA, V.P., inzh.; LEBEDEVA, I.G., inzh.

Study of salt extraction by the flushing and separating system of the PK-24 boiler. Elek. sta. 35 no. 4:10-15 Ap '64. (MIRA 17:7)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001342020008-1"

ND 医全元素 医多元性 医多元性 医克里特氏 医克里特氏 "我们会会会会会,我们就是这个人的人,我们就是这个人的人,我们就是这个人的人,我们就是这个人的人,我们

ACCESSION NR: AP4041583

\$/0078/64/009/007/1645/1649

AUTHOR: Savitskiy, Ye. M.; Polyakova, V. P.; Ty*lkina, M. A.;

Burkhanov, G. S.

TITLE: Palladium-tantalum system

SOURCE: Zhurnal neorganicheskoy khimii, v. 9, no. 7, 1964, 1645-1649

TOPIC TAGS: palladium tantalum system, palladium tantalum alloy, palladium tantalum alloy property

ABSTRACT: Palladium-tantalum alloys with a tantalum content varying, from 0—100% were vacuum melted in a nonconsumable tungsten electrode induction furnace, in an atmosphere of purified helium, and under a pressure of 250 mm Hg, from 99.9% pure Ta and powdered 99.98% pure Pd. They were then studied by microscopic and x-ray diffraction methods, by hardness measurements, phase microhardness, and thermal emf. Alloys were studied in the as-cast condition and also after vacuum annealing at a temperature varying from 1000 to 1800C; for periods of time from 30 min to 300—500 hr; in addition, alloys containing 80% and more of Ta were annealed at 2000C for 30 min. The phase diagram

Card 1/4

ACCESSION NR: AP4041583

of the Pd-Ta system (see Fig. 1 of the Enclosure) plotted on the basis of the obtained data is characterized by the presence of four metallic compounds in addition to limited solid solutions. One metallic compound is of a δ-phase type with a primitive tetragonal β-U lattice with the parameters a=9.64 kX, c=5.02 kX; it has a microhardness of ~ 600 kg/mm² and exists between 1575—2350C. The second compound with a composition close to that of the PdTa compound has a bcc tetragonal lattice with constants a = 3.28 kX, c = 6.00 kX, and a microhardness of $\sim 600 \text{ kg/mm}^2$. The alloy with 35% Ta contains a Pd₃Ta compound with a TiAl₃-type tetragonal lattice with constants a = 3.87 kX, c = 7.94 kX, and a microhardness of ~ 300 kg/mm². Annealing at 1650C of alloys containing 40-50% Ta, in which both the Pd3Ta and PdTa compounds are present, produced a new phase which had a microhardness of ~ 400 kg/mm² and a composition close to that of the Pd₂Ta compound; its crystal lattice has not been determined. About 27 wt% of Ta is dissolved in Pd at melting temperature and about 7% at 1000C. The hardness of cast alloys increases from 54 to 640 kg/mm² when the tantalum content increases from 5 to 79.73 wt% (6-phase), and drops sharply to ~ 170 kg/mm2 in an alloy containing 85 wt% Ta (8-solid solution). Orig. art. has: 7 figures and one table.

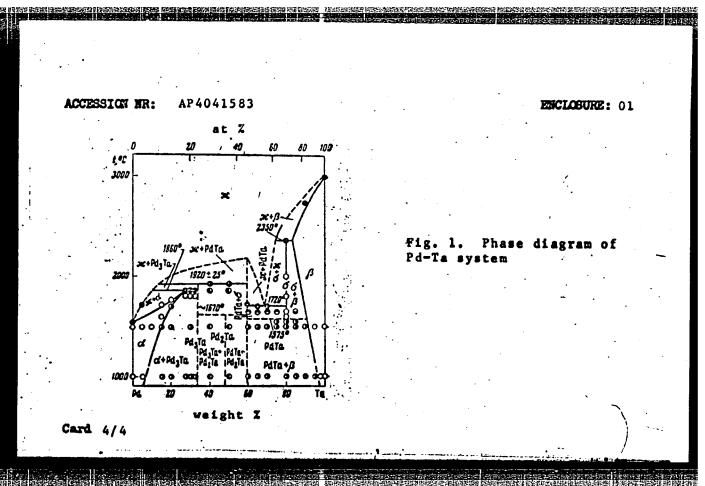
| Card 2/4

ACCESSION NR: AP4041583

ASSOCIATION: none

SUBMITTED: 14Nov63 ATD PRESS: 3064 ENCL: 01

SUB CODE: MM NO REF SOV: 002 OTHER: 003



SAVITSKIY, Ye.M.; TYLKINA, M.A.; POLYAKOVA, V.P.

Phase diagram of the system ruthenium - rhenium - osmium.

Zhur.neorg.khim. 8 no.1:146-418 Ja 63. (MIRA 16:5)

(Ruthenium-rhenium-osmium alloys)

TYLKINA, M.A.; POLYAKOVA, V.P.; KHAMIDOV, O.Kh.

Phase diagram of the system palladium - osmium. Zhur.neorg.khim. 3 no.3: (MIRA 16:4)
776-770 Mr *63. (Palladium-osmium alloys)

TYLKINA, M.A.; POLYAKOVA, V.P.; SAVITSKIY, Ye.M.

Phase diagram of alloys of the osmium - ruthenium system. Zhur.neorg.khim. 7 no.6:1467-1468 Je '62. (MIRA 15:6) (Osmium-ruthenium alloys)

CIA-RDP86-00513R001342020008-1"

APPROVED FOR RELEASE: 07/13/2001

TYLKINA, M.A.; POLYAKOVA, V.P.; SAVITSKIY, Ye.M.

Phase diagram of the osmium - rhenium system. Zhur.neorg.khim.
7 no.6:1469-1470 Je '62. (MIRA 15:6)
(Osmium-rhenium alloys)

TYLKINA, M.A.; POLYAKOVA, V.P.; SAVITSKIY, Ye.M.

System palladium - tungsten - rhenium. Zhur. neorg. khim.
9 no.3:671-673 Mr 164. (MIRA 17:3)

AND MEDICHEM BOUESERING. GERROOF STEER EN DE DE MONTE DE

SAVITSKIY, Ye.M.; TYLKINA, M.A.; POLYAKOVA, V.P.

Phase diagram of alloys of the ruthenium - rhenium system. Zhur.

neorg.khim. 7 no.2:439-441 F '62. (MII (Ruthenium-rhenium alloys) (Phase rule and equilibrium)

5/078/62/007/006/020/024 B110/B144

Tylkina, M. A., Polyakova, V. P., Savitskiy, Ye. M.

AUTHORS: TITLE:

Phase diagram of osmium - ruthenium alloys

PERIODICAL:

Zhurnal neorganicheskoy khimii, v. 7, no. 6, 1962,

1467 - 1468

TEXT: An Os - Ru phase diagram was established for the first time, by determining melting point and hardness and by microstructural and x-ray structural phase analyses. As Os and Ru have hexagonal crystal structures, and their atomic radii differ by no more than 1.51%, of solid solutions were assumed to form in an unbroken series. Os and Ru powders of 99.8% purity were pressed into tablets, sintered at 1200°C in vacuo, then melted in an evacuated electric arc furnace under a helium pressure of 200 - 250 mm Hg. Cast samples annealed at 2000°C for 1 hr and at 1000°C for 500 hrs were used for the phase analyses. Ground sections etched in 15% HNO3 using alternating current were used for the microstructural analysis. Lattice constants and hardness were determined under Cu-Kd radiation and under 5-kg load (in the Vickers test), Card 1/2

S/078/62/007/006/022/024 B110/B144

AUTHORS:

لأمافير لتام المنزي

Tylkina, M. A., Polyakova, V. P., Savitskiy, Ye. M.

TITLE:

Palladium-iridium phase diagram

PERIODICAL:

Zhurnal neorganicheskoy khimii, v. 7, no. 6, 1962, 1471-1473

TEXT: The Pd-Ir phase diagram was established by measuring the melting point, the microhardness of the phases and the Brinell hardness, and by microstructural and x-ray phase analyses. Pd and Ir have face-centered cubic crystal structures and similar electronegativity (lr: 2.10; Pd: 2.08); their atomic radii differ by not more than 1.5 %. Metal powders of 99.8 % purity were pressed, sintered in vacuo, and melted in an induction furnace - or, when containing 40-80 % by weight of Ir, in an electric arc furnace - under a helium atmosphere at 200-250 mm Hg. Heat treatment of the samples for the phase analysis: (1) All alloys were quenched from temperatures near their melting points. (2) Alloys containing 40-100 % Ir were quenched from 1600°C in vacuo. (3) All alloys were quenched from 1500°C in vacuo, from 1300°C, 1100°C, 900°C, and 700°C. (4) Annealing followed for 300 hrs at 1000°C, then cooling to 400°C at a

Card 1/3

s/078/62/007/006/022/024 B110/B144

Palladium-iridium phase diagram

rate of 100°C/24 hrs, and further cooling in the furnace. Cu-K radiation was used for the x-ray structural analyses. Sections of alloys rich in Pd, etched with an ethanol solution of Br, and sections of alloys rich in Ir, etched in 10 % HCl with alternating current, were used for the microstructural analysis. The hardness and microhardness were determined under structural analysis. The naturess and alteronardness were determined under a 250-kg load in the Brinell press, and under 50-g and 20-g loads in the a 250-kg load in the Brinell press, and under 50-g and 20-g loads in the a 250-kg load in the graph (1) A peritectic diagram arm (PIM-3) device, respectively. Results: (1) A peritectic diagram ((liq + $\beta \rightleftharpoons \alpha$) 1760 + 250 c) with two bounded solid solutions was found. (2) The region of the solid α -solution of Ir in Pd decreases from 38 % by weight of Ir at \sim 1700°C to 5 % by weight at <700°C. (3) Alloys containing ≤ 30 % by weight Ir, quenched from 1500°C, have a single-phase polyhedral structure. (4) The melting point of the solid a-solution increases from that of Pd (1552°C) to 1620°C (30 % by weight of Ir). (5) The microhardness increases from 40 kg/mm² (pure Pd) to 200 kg/mm² (30 % by weight of Ir). The hardness of alloys with solid a-solution, quenched from 1500°C increases continuously from 35 kg/mm2 (pure Pd) to quenched from 1900 the fire the region of the solid β-solution 120 kg/mm² (30 % by weight of Ir). (6) The region of the solid β-solution decreases from 17 % by weight of Pd at ~1700°C to 9 % by weight of Pd at 1100°C. On quenching from <1600°C, a second phase is separated, and the Card 2/3

A CONTRACTOR OF THE SECRET SEC

Palladium-iridium phase diagram

S/078/62/007/006/022/024 B110/B144

hardness of an alloy containing 10 % by weight of Pd increases. (7) Two face-centered cubic solid solutions occur in alloys containing 60 and 70 % There are 2 figures.

SUBMITTED:

建设研究的

January 11, 1962

Card 3/3

THE RESERVE OF THE PARTY OF THE

TYLKINA, M.A.; POLYAKOVA, V.P.; SHEKHTMAN, V.Sh.

System iridium - tungsten. Zhur. neorg. khim. 8 no.ll:25492555 N 163. (MIRA 17:1)

S/078/62/007/006/021/024 B110/B144

17 1210

Tylkina, M. A., Polyakova, V. P., Savitskiy, Ye. M.

TITLE:

AUTHORS:

Phase diagram of osmium-rhenium alloys

PERIODICAL:

Zhurnal neorganicheskoy khimii, v. 7, no. 6, 1962, 1469-1470

TEXT: An Os-Re phase diagram was established for the first time, by measuring melting point and hardness and by microstructural and x-ray structural phase analyses. It was assumed that an unbroken series of solid solutions is formed by substitution as these metals belong among transition metals having incomplete d-shells, they adjoin one another in the periodic system, the have isomorphous crystal structures, and their atomic radii system, the have isomorphous crystal structures, and their atomic radii differ but little. Metals of 99.8 % purity were pressed, sintered, and melted in an electric arc furnace under a helium atmosphere at 2000-250 mm Hg. Cast samples annealed at 2000°C for 1 hr and at 1000°C for 200-250 mm Hg. Cast samples annealed at 2000°C for 1 hr and at 1000°C for 1 hrs were used for the analyses and measurements. Microsections etched in 15 % HNO 3 using alternating current were used for the microstructural

analysis. Lattice constants and hardness were determined respectively under Cu-K $_\alpha$ radiation and under 5-kg load (in the Vickers test).

Card 1/2

S/078/62/007/002/017/019 B127/B110

AUTHORS: Savitskiy, Ye. M., Tylkina, M. A., Polyakova, V. P.

TITLE: Phase diagram of the ruthenium - rhenium melt

PERIODICAL: Zhurnal neorganicheskoy khimii, v. 7, no. 2, 1962, 439 - 441

TEXT: The existence of a continuous series of solid solutions in all concentrations is assumed on the basis of the vicinity of Ru and Re in the periodic system, the similarity of their radii, and isomorphy of the crystal structure. This assumption was confirmed by experiments. Various specimens, cast and thermally treated, were used for the phase analysis. V. S. Shekhtman used cuts for an X-ray diffraction analysis in a $\frac{65.7}{2}$ (RKU) chamber by Cu-K α radiation. This analysis showed the solid solutions to be of hexagonal structure. There are 2 figures, 1 table, and 1 Soviet reference.

SUBMITTED: June 23, 1961

Fig. 1. (a) Phase diagram Ru - Re; (b) dependence of the lattice community Card $1/\ell$

RODIONOV, V.M., USPENSKAYA, V.D., ZAMYATKINA, O.G., GRUNT, T.A., POLYAKOVA, V.R

Effect of total-body x-irridiation on the restoration of serum proteins following blood loss in dogs [with summary in English]. Vop.med.khim. 4 no.5:327-338 S-0 '58. (MIRA 11:11)

1. Institut biologicheskoy i meditsinskoy khimii AMN SSSR, Moskva.

(BLOOD PROTEINS,

restoration after exper. hemorrh., eff. of total body x-irradiation (Rus))

(ROENTGEN RAYS, effects,

total body, on blood protein restoration after exper. hemorrh. (Rus))

(HEMORRHAGE, exper.

eff. of total body x-irradiation on restoration of blood proteins (Rus))

s/078/62/007/001/003/005 B119/B110

Rudnitskiy, A. A. (Deceased), Polyakova, V. P. Phase diagram and properties of palladium - iridium - silver

AUTHORS: Zhurnal neorganicheskoy khimii, v. 7, no. 1, 1962, 151-156 TITLE: alloys

G

PERIODICAL:

TEXT: This paper deals with the production of alloys with properties Bimilar to those of Pt alloys 80 far used in technology, or of pure Pt. The examined alloys were fused from 99.99% Pd, pure Ir, (< 0.01% impurities), and doubly refined Ag in corundum crucibles under a borax layer in a highfrequency furnace. The regulus obtained was forged into bars at 1000-1200°C to measure hardness, thermoelectromotive force (t.e.m.f.), and microstructure. microstructure. The forged pieces were cold rolled and drawn into wires 1 mm in diameter to measure the electrical resistance by the compensation method with a MNTH-1 (PPTN-1) potentiometer, and tensile strength with a test device of the "Vibrator" Plant. Wires 0.5-0.3 mm thick and 0.5-1 m long were used to measure t.e.m.f. versus Pt. Alloys with less than 5% Ag and more than 15% Ir could not be forged, rolled, stretched.

card 1/3

s/078/62/007/001/003/005 B119/B110

Phase diagram and properties ...

The bars and wires obtained were thermally treated in different ways (tempered and hardened). Alcoholic bromine solution and HNO3 were used as caustics. Results: The phase diagram of the system Pd - Ir - Ag was constructed. With alloys containing 90% by weight of Pd, hardness, tensile strength, electrical resistance, and absolute t.e.m.f. decrease considerably as the Ir content decreases to 5%; below that, they increase again. Relative stretching and temperature coefficient have a maximum at 5% Ir. The behavior of alloys with 80% Pd is similar. Addition of Ir to Pd - Ag alloys causes high increase of strength and hardness whereas electrical properties and temperature coefficient remain constant. Alloys containing 2% Ir have a hardness of 87.8 kg/mm² with 80% Pd, and 99.1 kg/mm² with 70% Pd; maximum tensile strength was 49 kg/mm² with 80% Pd - 18% Ag - 2% Ir alloys. Mechanical workability is largely reduced by adding 1% Ag to Pd - Ir alloys. The alloy consisting of 80% Pd, 19% Ir, and 1% Ag cannot be stretched or forged at 1400°C. Among others, papers by Ye. Ya. Rode (Ref. 3: Izv. Sektora platiny, 13, 167 (1925)), V. A. Nemilov, A. A. Rudnitskiy, T. A. Vidusova (Ref. 4: Izv. Sektora platiny, 20, (1946)), A. A. Rudnitskiy (Ref. 8: Termoelektricheskiye svoystva blagorodnykh metallov. Akademizdat, (1956)), V. A. Nemilov, T. A. Vidusova (Ref. 10: Izv. Sektora platiny, 25, 20 (1950)) are mentioned. There are 5 figures, Card 2/3

男(2)

507/78-4-10-20/40

AUTHORS:

Rudnitskiy, A. A., Polyakova, V. P.

TITLE:

Investigation of Iridium - Gold Alloys

PERIODICAL: Zhurnal neorganicheskoy khimii, 1959, Vol 4, Nr 10,

pp 2304 - 2307 (USSR)

ABSTRACT:

Alloys were melted from iridium and gold powder and draw out to bars and wires suitable for the investigation after mechanical and thermal treatment. Micro-structure, micro-hardness, electric resistance and its temperature coefficient, thermoelectric current and - in alloys rich in gold - the melting temperature were investigated. The results are given in tables 1 and 2. All alloys rich in gold with more than 0.1% Ir separate metallic iridium in the form of a white phase (Fig 1), whereas the gold separation from alloys rich in iridium sets in at a 2% gold content. Consequently the two metals are soluble in each other to a very limited extent only. The microhardness of the alloys rich in gold shows a maximum at 0.1% Ir, that of the alloys rich in Ir at 2% Au. The electric resistance was measured at 25 and 100° with the PPTN type potentiometer (Fig 3).

Card 1/2

The maximum was found in the alloy with 0.1 % Ir, whereas

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001342020008-1 是一种,我们是是是不是是一种的人,我们们不是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人

Investigation of Iridium - Gold Alloys

SOV/78-4-10-20/40

the temperature coefficient of the electric resistance shows a minimum in this point. The thermoelectric current (Fig 3) is not affected by the addition of iridium at 6000, above 700° a small decrease occurs in the alloy with 0.1% Ir. The thermal analysis of the alloys up to a content of 15% Ir carried out by means of the Kurnakov-pyrometer revealed that the melting point of these alloys deviates from that of gold to practically no extent. There are 4 figures, 2 tables and 3 references.

SUBMITTED: June 28, 1958

Card 2/2

2000年1000年1

 $\frac{\text{L } 23883-65}{\text{IJP(c)}} \quad \text{EWT(m)/EPF(n)-2/EPR/EWP(t)/EWP(k)/EWP(b)} \quad \text{Ps-4/Pu-4}$

ACCESSION NR: AT5002771

5/0000/64/000/000/0161/0167

AUTHOR: <u>Tylkina</u>, M.A. (Candidate of technical sciences); <u>Tsyganova</u>, I.A.;

TITLE: Physicochemical interaction of rhenium with elements of the platinum group, and the properties of certain alloys (a review)

SOURCE: Vsesoyuznoye soveshchaniye po probleme reniya. 2d, Moscow, 1962. Reniy (Rhenium); trudy soveshchaniya. Moscow, Izd-vo Nauka, 1964, 161-167

TOPIC TAGS: rhenium, rhenium alloy, platinum group element, rhenium solid solution, peritectic point, rhenium alloy mechanical property, rhenium alloy conductivity

ABSTRACT: The authors first review the physicochemical interaction of rhenium with the platinum-group metals (ruthenium, osmium, tungsten, palladium, rhodium, iridium, platinum). The solubility of rhenium in these metals and vice versa is illustrated with graphs. Rhenium forms a continuous series of solid solutions with ruthenium and osmium; with rhodium palladium, iridium and platinum, rhenium forms systems represented by peritectic-type phase diagrams with two limited solid solutions. No chemical compounds are formed in these systems. The relation between the difference in the melting points

Cord 1/2

L 23883-65

ACCESSION NR: AT5002771

2

of the metals and the peritectic point is discussed. The authors then discuss the mechanical properties of alloys formed by rhenium with platinum-group metals (hardness of alloys of the system rhenium - ruthenium - osmium, effect of rhenium on the hardness and strength of palladium, effect of annealing temperature on the strength and plasticity of palladium-rhenium alloys). The article concludes with a description of the electrical properties of such alloys (resistance, thermoelectromotive force). Orig. art. has: 10 figures.

ASSOCIATION: none

SUBMITTED: 05Aug64

ENCL: 00

SUB CODE: MM

NO REF SOV: 009

OTHER: 002

2/2

TYLKINA, M.A.; POLYAKOVA, V.P.; SAVITSKIY, Ye.M.

Phase diagram of the system palladium - tungsten. Zhur.neorg.khim.
(MIRA 14:11)

(Palladium-tungsten alloys)

18 9200

in Alekta genne general in Kolonia in de general A

AUTHORS:

Tylkita, M. A., Islaakses, V. Q. Casit ely Sec De

TIPLE.

- Phase श्राद्वमान्त्र हो गोल इस. महालाह । गामकारण प्याप्त र

PEBIODICAL Thornal recomment necks, Primits of the St. This 147 - 1474

TEXT: Publications only restoic parameters formation of solid solutions of 22.6% by weight of tungater to polludion and the absence of chemical compositions of both elements. The place diagram oftgo that the palladium of tungater system was drown by determination of the fastom temperature, microscopic and E ray those analyses, measurements of hardness and microhardness of the present as well as of the atsolute thermosemi. The initial subserves of the places as well as of the atsolute were mixed, briquetted and sinterest of these land to be an En. and then melted in the air formate in purified areas a timesphere. The facility temperature was determined according to You E. Saint say theful in the arms of 1980 lay the drop merical transfer according at the drop merical pyrometer. For the these and you of the element, and then to less out of minute for 6 for at 1800 for and for belong it moved.

Card 1/6

BARTERS CONFIDENCE STREET State disarray of the jouladion of tropstem of Arthogona by air. The X-ray investigation was made with each Kalamieston in the chamber of the type GALLERDE wir the miorescope analysis, allows with bigh Pd content were attred with the mi Top Hit and with A drive Hid. alloye with high Workers with a missore of I parts of the Lyfereday and Topath of 10% KOH. The hardness was investigated in the Vickers agratuates with 8 kg. the microhardress of the player in the T.O.B. FMT-8, apparents with 80 g and 20 g loads. The arablice thermosens was determined assending to A. A. Buthitskiy where 4. Termos ektricheskiye sonyetra blaggroduykh metallow i ikh splawim Tid im AM SSSR Moskim i Wiel Figs to shows the phase diagram Pd-W. if $\mathcal C$ is a diagram composition of properties. The diagram of the system Pd-W is possible to (1,0) in (2,0) and (3,0) and two limited zones of solid solutions. A prostructure, and A ray analyzade produced monophase structure of the solid solution with fare centered cubes with lattice parameters (similar to 11) of all alloys 3.330 by weight W. The alloy with 25% by weight W. The alloy with 25% by weight W. a. > 1800 0; a spoond phase precitivities at tower temperatures. The fusing temperature of solid and interestable from the palledium facing point of 155900 up to 170000 for an alley with The weight W. The Card 1/6

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001342020008-1"

230011

S/078/61/006/006/010/013 Phase diagram of the palladium - tungsten ... B110/B206

absolute thermo-emf of the solid α -solution changes sinusoidally. On the basis of tungsten, the zone of the monophase solid β -solution is much narrower. It amounts to 2% by weight Pd in the fusing point vicinity and drops to 1.6% by weight at 1500°C. In the cast state, the alloy with 98% by weight W shows a monophase solid solution. After quenching from 1500 and 1000°C, a second phase appears, which increases with decreasing temperature. Cubic W structure was determined for this phase by X-ray analysis. The α + β -diphase zone lying between the α - and β -zone clearly showed primary gray dendrite crystals of the solid β -solution, which were surrounded by the lighter $\alpha\text{-solution.}$ The $\beta\text{-portion}$ rises with an increase of tungsten and the α -crystals only remain as narrow veins at the grain boundaries of the β -crystals. The microstrength of the α -solution amounted to about 220 kg/mm², that of the β -solution to about 440 kg/mm². The curve of the absolute thermo-emf, almost horizontal in the diphase region, dropped considerably at the transition to the region of the β -solution. The alloys in the region of the solid tungsten- and palladium solutions can be well shared by cold processing, so that they may be used as potentiometric and corrosion-resistant materials. The authors thank Ye. N. Kunenkova@for her collaboration. There are 2 figures, 1 table,

Card 3/6

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001342020008-1"

Phase diagram of the palladium - tungsten ... B110/3206

and 4 references: 3 Soviet-bloc and 1 non-Soviet-bloc.

SUBMITTED: December 23, 1960

Fig. 1: Diagram (a - 2) of the phase and property of the palladium - tungsten system.

Legend: 1) microhardness in kg/ms; 2) tempered at 10000c; 3) cant; 4) w content in // by weight

(For Fig. 1 see Card 6/6

USPENSKAYA, V.D., GORYACHENKOVA, Y.V., MOGILEVSKAYA, Z.G., POLYAKOVA, V.P.

Electrophoretic purification of diamine oxidase [with summary in English]. Biokhimiia 23 no.2:211-219 Mr-Ap '58 (HIRA 11:6)

1. Institut biologicheskoy i meditsinskoy khimii AMN SSSR, Moskva. (HISTAMINASE, purification by electropheresis, technic (Rus))

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001342020008-1"

POLYAKOVA, V. P.

CONTROL MEDICAL MARKET NEWS AND AND AND AND AND ASSESSMENT OF THE PROPERTY OF

POLYAKOVA, V. P. and UKHIN, B. N. Standardizing Selection and Portioning of Coal

Samples at Electric Power Plants (O Standartizatsii Skhemy Othora
i Razdelki Prob Uglya na Elektrostantsiyakh), pp. 13-15

A description of a standard sampling installation for selection of coal portions at a large unnamed electric power plant is given. (Drawings and table).

SO: ELECTRICHESKIYE STANTSII, No. 12, Dec. 1952, Moscow (1614306)

- POLYAKOVA, V. P .: UKHIN, B. N.
- USSR (600)
- Electric Power Plants
- Standardizing coal sampling schemes at electric power plants. Elek.sta., 23, no. 12,

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

5(2) AUTHORS:

Rudnitskiy, A.A., Polyakova, V.P.

SOV/78-4-11-20/50

05867

TITLE:

Investigation of Silver-Iridium Alloys

PERIODICAL:

Zhurnal neorganicheskoy khimii, 1959, Vol 4, Nr 11,

pp 2515-2517 (USSR)

ABSTRACT:

So far, silver-iridium alloys have not yet been investigated systematically. H. Rössler (Ref 1) has, however, shown that iridium is unsoluble in liquid silver. The authors made an attempt to produce alloys with an iridium content of 0.5, 1, 5 and 10% by weight in silver and a silver content of 5 and 10% by weight in iridium. The authors measured the microstructure (Fig 1) and microhardness (by means of a PMT-3 hardness tester) of the alloys, the specific electric resistance (PPTN potentiometer), its temperature coefficient, the thermoelectric force and the melting temperature (by means of N.S. Kurnakov's pyrometer). The experimental results contained in table 1 and figure 1 indicate that the two components in liquid phase are mutually soluble only to a certain extent. The solubility of Ir in Ag is below 0.5% as results from the increase in microhardness and thermoelectric force of alloys with 0 - 0.5% of Ir. The

Card 1/2

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001342020008-1"

OFFICE STREET OF THE SECOND STREET STREET

SAVITSKIY, Ye.M.; POLYAKOVA, V.P.; TYLKINA, M.A.; BURKHANOV, G.S.

System palladium - tantalum. Zhur. neorg. khim. 9 no.7:
1645-1649 J1 '64.

(MIRA 17:9)

VARNAVSKIY, I.N.; POLYAKOVA, V.S.; ARONE, R.G.; SOKOLOVSKIY, P.I.

15XSND thermally processed steel. Prom. stroi. 42 no.1;
36-37 '65. (MIRA 18:3)

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001342020008-1 ELECTION OF THE CONTROL OF THE CONTR

POLYMOVA, Y. V.

و 13. د ۲. ۲

1.47/Jun 1947

USSR/Metals

"Spectral Analysis of Bronze and Tin, and the Fradin; of Ferrous and Honferrous Alloys," i. I. Brintake, L. M. Ivantsov, V. V. Polyakova, 6 pp

"Iz Ak Nauk SSSR, Ser Flx" Vol XI, No 3

Discusses rabia determination of tin, zinc and lead in stammic aronzes, the quantitutive spectral analysis of tin on cover or iron, a method for distinguishing between ferrous and nonferrous alloys with the aid of a styloscope, which is equipped with a protonetric eyenonterious alloys also une ald of a Soyloscope, anten is equipment at a parounce of the equipment. Une piece, and the analysis of nonferrous and ferrous alloys. Sketches of the equipment. of the corrects appended to this work urges that the new eyeplece suggested by the author be turned out in quantity to supply all the requirements of the industry.

PA-24T83

FOLYAKOVA, V. V.

USSR/Metals - Nickel Spectrum Analysis

Jan 50

"Determination of Admixtures in Metallic Nickel by the Method of Spectrum Analysis," L. N. Vershavskaya, L. M. Iventsov, V. V. Folyakova, State Sci Res Inst of Monferrous Metals, 4 PF

"Zavod Lab" Vol XVI, No 1

Develops procedure for determination of iron, silicon, cobalt and copper in commercial grades of nickel over following ranges: Fe 0.05-0.3%, Si 0.15-025%, Co 0.30-0.75%, and Co 0.32 0.32% Nother ranges: and Cu 0.03-0.30%. Nethod provides for using ISI-22 spectrograph, microphotometer, and condensed spark generator. Accuracy of determiniation (3.7 for Fe, 4.6% for Si, 3.7% for Co, and 3.5% for Cu) thus obtained satisfies requirements of production control.

PA 159T60

CIA-RDP86-00513R001342020008-1" APPROVED FOR RELEASE: 07/13/2001

,是是在这种的人,我们就是不是一个人的人,我们们就是一个人的人的人,我们就是一个人的人的人的人的人的人的人的人,我们就是一个人的人的人的人的人的人的人的人的人

POLYAKOVA, V. V.

USSR/Metals - Analysis Steeloscope Apr 50

*Application of the Steelescope With an Improved Photometric Eyepiscs for Rapid Analysis of Metals and Alloys, " L. H. Ivantsov, V. I. Malinina, V. V. Polyakova, State Sed Res Inst of Monferrous Motals, 4 pp

"Zavod Iab" Vol MVI, No 4

Describes improved model of photometer and method for rapid analysis of alloys with aid of steeloscope with photometric eyepiece. Determination accuracy is close to that of analyses conducted with steelometer. Eyepisce may be used with steeloscope of any type.

PA 160768

CIA-RDP86-00513R001342020008-1"

APPROVED FOR RELEASE: 07/13/2001

"APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001342020008-1 现的人,是不是不是不是不是不是不是,他们就是这些人的人,也是是这种人的人,也是是这种人的人,也是是一种人的人,也是是一种人的人,也是是一种人的人,也是一种人的人

POLYAKOVA, V.V.

USSR/Chemistry - Spectral analysis

Pub. 43 - 66/97

: Britske, M. E.; Gerken, E. B.; Zdanovich, I. D.; Ivantsov, L. M.; Kafanova, T. A.; Malinina, V. I.; Mironova, E. A.; and Polyakova, V. V. Card 1/1 Authors

Spectrographic determination of admixtures in Pb, crude lead, water

jacket slag and certain powders Title

: Izv. AN SSSR. Ser. fiz. 18/2, 283-284, Mar-Apr 1954

: Report is presented on a complex of methodical works conducted by the Periodical Abstract

State Scientific Research Institute of Non-Ferrous Metals on the determination of admixtures in lead, crude lead, waterjacket slag and

certain powders by means of spectrographic methods. The results

obtained in these experiments are tabulated. Tables.

Institution : State Scientific Research Institute of Non-Ferrous Metals

: Submitted

FOLYAKOVA, V.V.

Investigation of the spectral characteristics of analysis standards made of pressed powdered metals. Izv.AN SSSR.

Ser.fiz.19 no.2:165-166 Mr-Ap '55. (MLRA 9:1)

(Tartu-Spectrum analysis-Congresses)

POLYAKOVA, V. V.

"Investigation of the Features and Practical Application of "Investigation of the reatures am fractical application of Briquetted Standards and Samples for Purposes of Spectral Analysis of Nonferrous Metals." Min Nonferrous Metallurgy USSR. State of Nonferrous Metals "Gintsvetmet." Moscow, 1956. Sci Res Inst of Nonferrous Metals "Gintsvetmet." Moscow, 1956. (Dissertation for the Degree of Candidate in Technical Science) POLYAKOVA, V. V.

So: Knizhnaya Letopis', No. 19, 1956.

TROITSKAYA, M.I.; POLYAKOVA, V.V.; SOLMTSEV, M.I.; FILIPPOVA, M.A.

Organization of analytical work at the State Scientific Besearch Institute of Monferrous Metals; summary of work accomplished in (Metallurgical research) (Metallurgical research) (Metallurgical research) (Metallurgy)

(Monferrous metals—Metallurgy)

。 在这种种种,这一种是一种,这种是一种,这种是一种的,我们是一种的,我们就是一种的,我们就是一种的,我们就是一种的,我们就是我们的是我们的,我们就是我们的是一种的。 第一种的是一种的一种是一种是一种的一种,我们是一种的一种的,我们就是一种的一种的一种的,我们就是一种的一种的一种的一种的一种的一种的一种的一种的一种的一种的一种的

MOSHKOVSKIY, Yu.Sh.; POLYAKOVA, V.V.; Prinimala uchastiye: ZHDANOVA, V., praktikantka

Hypochromia of cyanin dye in nucleic acid solution. Biofizika 9 no.48526-527 '64. (MIRA 18:3)

l. Institut khimicheskoy fiziki AN SSSR, Moskva (for Moshkovskiy, Polyakova). 2. Kafedra vysokomolekulyarnykh soyedineniy khimicheskogo fakul'teta Moskovskogo gosudarstvennogo universiteta (for Zhdanova).

5 (2) AUTHORS:

STEPPENS OF

Filimonov, L. N., Polyakova, V. Y.

SOV/32-25-8-27/44

TITLE:

On Standard Samples for Spectrum Analysis

PERIODICAL:

Zavodskaya laboratoriya, 1959, Vol 25, Nr 8, pp 972-980 (USSR)

地位的基本的证据的证据,其实是相信的证据的证明的证明,但是是是是是是是是是的的的。

ABSTRACT:

The All-Union standard samples (SS) for spectrum analysis of steels, cast iron and iron alloys as well as those (SS) for the chemical analysis are now being delivered. There is a list of the (SS) of metals, alloys, ores and the processing products (including the type designations) (Tables 1-B). The (SS) prepared by the Laboratoriya standartnykh obraztsov Ural'skogo instituta chernykh metallov (LSO) (Laboratory of the Standard Samples of the Ural Iron-metal Institute (LSO)) are not listed, as they have been listed before (Ref 1). The article contains some data on the planned preparation of new (SS) (Tables 1, 3, 4, 8). The abovementioned tables give the installations in which the (SS) are being prepared, and the following are especially mentioned: Gintsvetmet - Gosudarstvennyy institut tsvetnykh metallov (Moskva) (Gintsvetmet - State Institute of Non-ferrous Metals (Moscow)), Vniitsvetmet - Vsesoyuznyy nauchno-issledovatel'skiy institut tsvetnykh metallov (g. Ust'-Kamenogorsk) (Vniitsvetmet - All-Union Scientific Research Institute of Non-ferrous Metals (City:

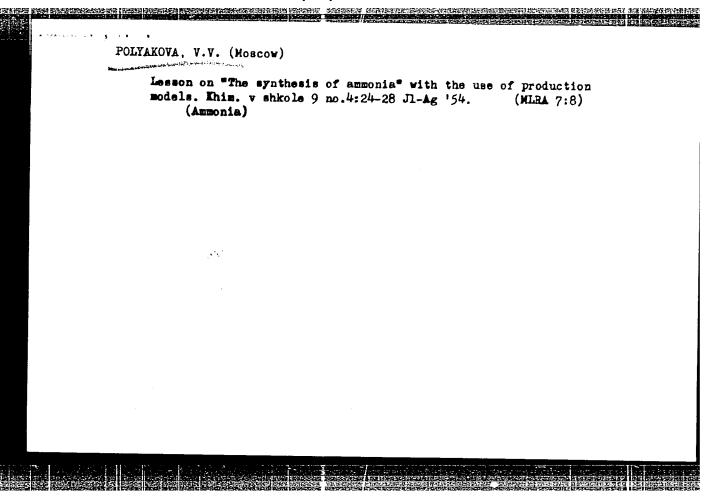
Card 1/2

On Standard Samples for Spectrum Analysis

SOV/32-25-8-27/44

Ust'-Kamenogorsk)), IONKh AN USSR - Institut obshchey neorganicheskoy khimii AN USSR (Laboratorii v Odesse) (IONKh AS UkrSSR - Institute of General Inorganic Chemistry of the AS UkrSSR (Laboratories in Odessa)), Tsniiolovo, Gipronikel', Giprotsvetmetobrabotka, VAMI - Vsesoyuznyy alyuminiyevomagniyevyy institut (VAMI - All-Union Aluminum-magnesium Institute), Komissiya po spektroskopii pri IFM - Komissiya po spektroskopii pri Institute fiziki metallov, g. Sverdlovsk (Commission for Spectroscopy at the IFM - Commission for Spectroscopy at the Institute of Metalphysics, City: Sverdlowsk), VIAM, Irkutskiy gosudarstvennyy institut redkikh i malykh metallov (Irkutsk State Institute of Rare and Minor Metals). The article contains a list of the (SS) for rare metals and its ores, given in 7 groups, to be prepared by the IONKh of the AS UkrSSR, and there also is an explanation of the preparation method and the testing of the (SS). There follows a description of the preparation of the material for producing the (SS) and some examples. A separate paragraph treats the determination of the components of the (SS). There are 8 tables and 30 references, 29 of which are Soviet.

Card 2/2



ANDRIADI, Ye.L.; POLYAKOVA, V.V.

Spectrum analysis of silver nitrate and metallic (refined) silver.

Sbor. nauch. trud. Gintsvetmeta no.18:100-103 '61.

(Silver nitrate—Spectra)

(Silver—Spectra)

1.

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001342020008-1"

据表现(DATATION DATATION TO THE TOTAL CONTROL OF THE

POLYAKOVA, V.V., ved. red.; BASHMAKOV, G.M., tekhm. red.

[Instructions on safety engineering in underground repairing of wells]Instruktsiia po tekhmike bezopasnosti pri podzemnom remonte skvazhin. Moskva, Gostoptekhizdat, 1962. 29 p.

(MIRA 15:9)

(Oil wells-Safety regulations)

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001342020008-1"

POLYAKOVA, V.V.; BYKHOVSKIY Yu.A.

New methods of control of copper matte converting processes.

Sbor. nauch. trud. GINTSVETMET no.15:420-428 '59. (MIRA 14:4)

(Copper-Metallurgy)

(Converters)

SOV/137-57-1-1619

nest minimal de la compacta de la co

Translation from: Referativnyy zhurnal. Metallurgiya, 1957, Nr 1, p 215 (USSR)

AUTHORS: Troitskaya, M. I., Polyakova, V. V., Solntsev, N. I., Filippova, N.A.

TITLE: Organization of Analytical Work at the Gintsvetmet [State Institute

for Nonferrous Metals]. Results of Work During the Last Five Years (Organizatsiya analiticheskoy raboty v Gintsvetmete. Itogi

raboty za posledneye pyatiletiye)

PERIODICAL: Sb. nauch. tr. Gos.n-i. in-t tsvet. met., 1956, Nr 12, pp 5-13

ABSTRACT: The Gintsvetmet [State Institute for Nonferrous Metals] has three laboratories: One for chemical analysis, one for physical methods

of investigation, and one for the study of the material composition. An account is made of the nature of the work of these laboratories

in the analysis of raw ores, the middlings, and pure metals.

N.G.

Card 1/1

5(4) SOV/32-25-4-1/71 AUTHORS: Koritskiy, V. G., Polyakova, V. V., Filimonov, L. N.

TITLE: Standards for the Spectrum Analysis (Ob etalonakh dlya spektral'nogo analiza)

PERIODICAL: Zavodskaya Laboratoriya, 1959, Vol 25, Nr 4, pp 387-390 (USSR)

ABSTRACT: The problem of a unification in the manufacture of standard samples (SS) for the spectrum analysis arises in the USSR. In

the present paper it is pointed out that at present the only in-

stitution especially charged with this problem is the

Laboratoriya standartnykh obraztsov Ural'skogo instituta chernykh metallov (LSO) (Laboratory for Standard Samples of the Ural Institute of Iron Metals), and that there only SS for the analyses of iron metals are being made. For the manufacture of SS for the analyses of other metals there are at present about 15 different organizations where this work is done, for the major part in an unorganized way. In particular, it is suggested

to reorganize the LSO to the Institut spektral'nykh etalonov i khimicheskikh normaley (Institute for Spectral Standards and Chemical Standards). For the more special analyses of pure met-

Card 1/2 als, for instance, the institutes of the proper branches of in-

到,在中国的大型中的大型,但是一个人的工程,但是是一个人的工程,但是一个人的工程,但是一个人的工程,但是一个人的工程,但是一个人的工程,但是一个人的工程,但是一个

Standards for the Spectrum Analysis

SOV/32-25-4-1/71

dustry, such as Gipronikel', Giprotsmo, Gintsvetmet, VNIITsvetmet, VAMI, TsNIIolovo etc should be appertaining. An example for passing from the usual small-scale manufacture of SS for the "proper use" to a common manufacture of SS was already given by a firm which prepared a series of 50 high-quality SS of the bronze Br. AZh 9-4 A suggestion for an extended centralization of the manufacture of SS was also made by the Kamensk-Ural'skiy zavod obrabotki tsvetnykh metallov (Kamensk-Ural Works for the Processing of Nonferrous Metals). Good SS for copper alloys MTs 2 are issued by the Kaluzhskiy turbinniy zavod (Kaluga Turbine Works). Some shortcomings of the present manufacture of SS are pointed out, and it is stated that in the planning and execution of a controlled manufacture of SS an important part is played by the works laboratories, the technical departments of the firms, the administration of the Councils of Economy, and particularly the Komitet standartov (Committee of Standards).

Card 2/2

BAGDASAROV, V.A.; KAZAKOV, A.S.; SARKISYAN, A.M.; BYKHOVSKIY, Yu.A.;

Automatizing converters, using converter gases, and the spectral method of controlling converting processes. Towet. met. 31 no.5:

(MIRA 11:6)

1. Alaverdskiy medno-khimicheskiy kombinat (for Bagdasarov, Kazakov, Sarkisyan). 2. Gosudarstvennyy institut po tsvetnym metallam (for Bykhovakiy, Polyakova). (Converters) (Monferrous metals--Metallurgy) (Automatic control)

AUTHORS:

Bykhovskiy, Yu.A. and Polyakeva, V.V. Bagdacarov, V.A.

TITLE:

Converter Automation, Utilisation of Converter Gases and Application of a Spectroscope Method for Controlling the Bessemerisation Process (Avtomatizatsiya konverterov ispol'zovaniye konverternykh gazov i primeneniye spek-

tral nogo metoda kontrolya protsessa Bessemerovaniya) PERIODICAL: Tsvetnyye Metally, 1958 Nr 5, pp 28 - 34 (USSR)

Copper-chemical Combine, the productivity of converter operation and of the sulphuric-acid plant and converter campaign life were increased in 1957 by introducing automatic control and rapid analytical methods. The authors hope their description of the methods and their development will be useful to other combines. In addition to the authors, the following participated in the work: from the Alaverdi Sakhanskiy, Zarapov, Bezhanov, Arutyunyan, Davtyan, Kortava, Fecfanov, Tumanyan and other; from Gintsvetmet Combine -Rodionova, Kuznetsov and Olevanov; from the TsPKB of

the Proyektmontazhavtomatika (now Giprotsvetmet)

Rozendor, Averbukh and Finger; from Kavteplokontrol-Card1/3 Dzodtsoyev, Kapysitskiy and Vishnevskiy. The authors

Converter Automation, Utilisation of Converter Gases and Application of a Spectroscope Method for Controlling the Bessemerisation Process

describe first the automation of converters with details of the instruments and a circuit diagram (Figure 1). The component parts of the system are units for automatic regulation of gas pressure in the dust-catcher for automatic control of blast flow rate and pressure, for event of blast pressure falling with liquid metal in the for continuous temperature measurement in the converter scopic analytical method adopted was developed after a specific investigation in which the continuous flame for determining the readiness of white matte, a pocket spectroscope is now used, the method being based on and 5700 Å). For controlling the end of the bessemerication process, the relation between the SO2 content

er ja sakend ja kised kaika sakenda jan sulidas innaisikan jarahan kauninkinan kadimintan

of the exit gases and the state of the process is used. Card2/3 observations being made with a steeloscope. The results

Converter Automation, Utilisation of Converter Gases and Application of a Spectroscope Method for Controlling the Bessemerisation Process

in 1957 of the adoption of automation of the combine were a 5-6% increase in converter heat weight, 7-8% decrease in duration, a converter campaign life increase up to 5 1/2 from 3 months, increase in sulphur-dioxide concentration to 6-8% and savings of materials and power; production of elementary sulphur also increased and the overall productivity of the converter shop rose by 15%. There are 4 figures and 2 Soviet references.

ASSOCIATIONS:

Gintsvetmet and Alaverdi medno-khimicheskiy kombinat (AlaverdskyCopper-chemical Combine)

Card 3/3

1. Furnaces--Control systems 2. Waste gases--Applications

3. Sulfuric acid--Production 4. Steel--Production

5. Spectrophotometers--Applications

AUTHOR:

TITLE:

Polyakova, V.A., Candidate of Technical Sciences Laboratory Research 6-10-5/12 Carried out by Means of the Stereo-

graphic Apparatus Developed by Professor F.V. Drobyshev (Labor-

atornyye issledovaniya stereografa prof. F.V.Drobysheva) PERIODICAL: Geodeziya i Kartografiya, 1957, Nr 10, pp 33-36 (USSR)

ABSTRACT:

The stereographic apparatus developed by Drobyshev is distinguished from other devices of similar type by its small size and some peculiarities in operation. On the strength of the examination of the device dealt with here the following may be said: 1.) The space coordinates of the points are determined in the stereographic apparatus with great accuracy irrespective of the superelevation amount, i.e. the device may be recommended for the stereophotogrammetrical taking of views of mountainous and undulated territories. 2.) The stability of the accuracy of the device as a whole depends upon the quality of production and mounting. The faults found in the course of investigations can easily be remedied in series production. There are 2 tables.

AVAILABLE:

Library of Congress

Card 1/1

RITSKE, M.E., red.; AROUSHTEYN, A.H., red.; MATVEYEV, N.I., red.; POLYAKOVA, V.V., red.p PILIMOHOV, L.H., red.; TRUSOV, N.S., tekhn.red.

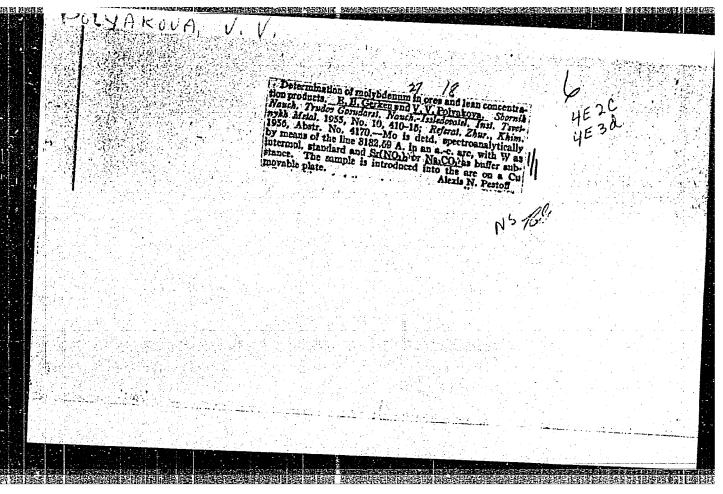
[Pepers read at the Second All-Union Conference of Spectroscopic Assayers of Nonferrous Motels] Materially 2-go Vsesciuznogo soveshchania spektroskopistov-analitikov tsvetnoi metallurgii. Red. kollegiia M.B.Britske, i dr. Moskva, Mauchno-tekhn.ov tsvetnoi metallurgii, 1957. 128 p.

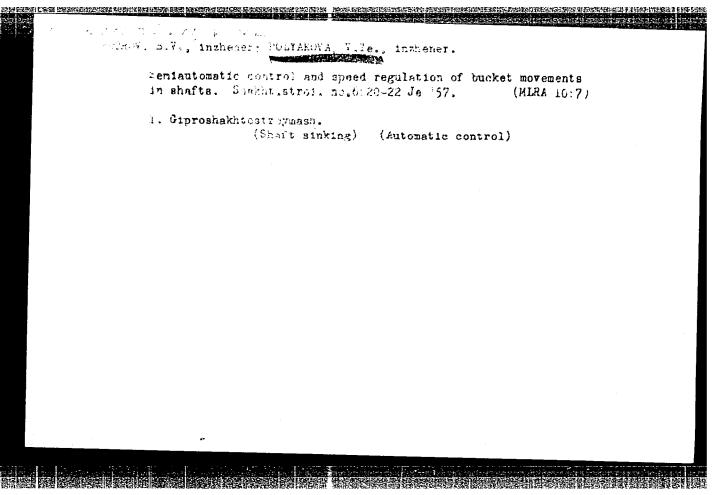
[MIRA 11:3)

1. Vsesoyusnoye soveshchaniye spektroskopistov-analitikov tsvetnoy metallurgii, 2d, Moscow, 1955.

(Monferrous metals)

(Assaying)





1. :CITA CVA, Ye. A.

2. USSR (609)

"Theoretical Foundations of Justracents for Measuring the Visibility Range." Trudy CGO, Issue 11, 1948 (11-72)

5. Meteorologiya i Gadrologiya No. 3, 1949. Replace U-2051.

30 C t 52

1. February 1, Ya. A.

2. USOR (600)

Review of Several Articles Published 3: the Latest Insue of the "Transactions of the Academy of Sciences of the Kasakh SSR,"

No. 5%, 1948.

5. Meteorologiya i Gidrologiya, No. 3, 1949.

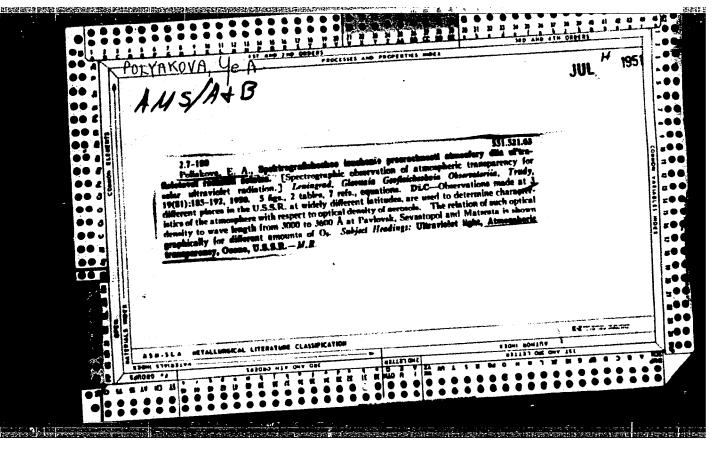
Report U-2551, 30 Cet. 50.

"Colors Contained in the Glow of the Early-Morning or Late-Night Sky", Iz ak Nauk SSSR, Ser Geograf i Geofiz, Vol. 13, No. 2, pp 154-162, 1949.

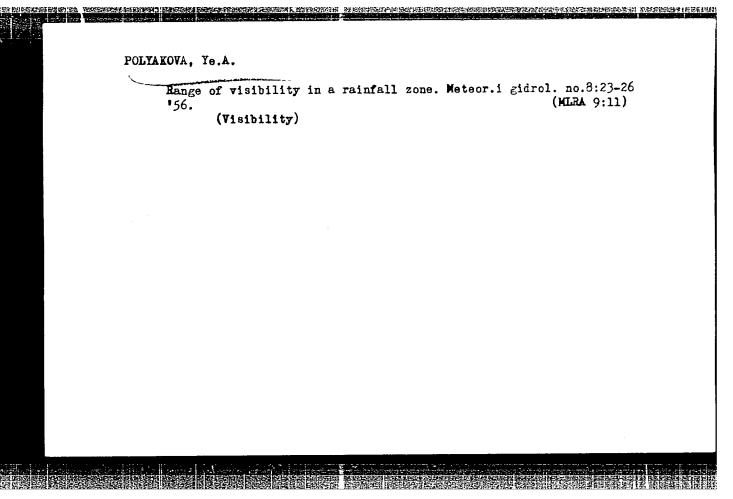
PCLYAKOVA, YE. A.

Raschet zorevykh okrasok (CAlculation of Auroral Colors). Akademiya "auk SSSR. Izvestiay. Seriya geogr. i geofiz., 1949, v. 13, no. 3, p. 247-255, tables, diagrs.,

AS262.A6246 v 13.



11:1)



36-68-3/18

AUTHOR:

Polyakova, Ye. A.

TITLE:

Experimental Proof of the Formula for the Decrement Coefficient of Light During Rain (Eksperimental'naya proverka formuly dlya koeffitsiyenta oslableniya sveta

v dozhde)

PERIODICAL: Trudy Glavnoy geofizicheskoy observatorii 1957, Nr 68, pp. 88-91 (USSR)

ABSTRACT:

The article summarizes results of testing rain drops as a factor affecting light intensity and offers a mathematical method of calculating the decrement. The tests were conducted in 1953 - 1954 at Voyeykovo. The diminishing of light during rain was measured by a special photoelectric device called the transparency register of rain drops . All treatment is mathematical. This is the first of three articles on the subject. K.S. Shifrin is mentioned. There are 2 diagrams, 1 table and 5 references, of which 4 are

USSR.

AVAILABLE: Library of Congress

Card 1/1

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001342020008-1"

POLY	AKOVA, Ye.A.
	Study of rain microstructure in connection with transparency. Trudy GGO no.68:92-97 57. (MIRA 10:11) (Atmospheric transparency) (Rain and rainfall)

301/50-58-6-23/24

AUTHOR:

Polyakova, Ye. A.

TITLE:

The Surrary Meeting of the Scientific Council of the Geophysical Main Observatory imeni A. I. Voyeykov (Itogovaya sessiya uchenogo soveta Glavnoy geofizicheskoy observatorii im. A. I. Voyeykova)

PERIODICAL:

Meteorologiya i gidrologiya, 1958, Nr 6, pp. 64 - 65 (USSR)

ABSTRACT:

The subject leeting was held from January 27th to 31st. It dealt with the results obtained by the scientific research work carried out according to a plan. Seven informative communications were delivered in 10 sessions. Representatives of the scientific research institutions of the Hydrometeorological Service, of local administrations of this service, of the Institutes of the AS USSR, of the MGU and LGU, as well as of the scientific and operative institutions of other departments participated in the work of this meeting. On the first day problems of the dynamic meteorology were discussed, on the second day themes concerning forecasts. On the third day problems of the physics of clouds were discussed. On

Card 1/2

The Summary Meeting of the Scientific Council of the Geophysical Main Observatory imeni A. I. Voyeykov

January 30, reports were delivered on the investigation of fog. On the last day the meeting dealt with experimental work. Informative communications were delivered in the final session in the evening of the same day. Many reports were livelily discussed. A high scientific level as well as the considerable activity of the participants are worth mentioning. The participants could make themselves acquainted with the work of the observatory basis at Voyeykovo.

Scientific reports--USSR 2. Meteorology 3. Hydrology

Card 2/2

POLYAKOVA, YE. A.		
		Ħ
Khmaladas, G. H. Scientific losting at the Thilist Scientific Research Institute of Expressional Scientific Research Institute issistantist show gittroneteorologichaskom institute) Metaorologiya i gidroneteorologichaskom institute) Im may 1958 the Thilishiy nuchno-issisdovasellskiy gidro- metaorologiya i mittute in 1959, Hr 2, pp 70 - 71 (USSE) Im may 1958 the Thilishiy nuchno-issisdovasellskiy gidro- metaorologiya institute in 1960 mittute in 1960 mitto the Collomia representatives participated Hepresentatives of per Sentrally Lustitute prognow (Gental Porcenting In- mittute) Giaranya geofisicheskya observatoriya (Main Geo- mydronel Observatory) and the local search Strenking (Geo- mydronel services of the Transcucation Ropublice, On the corselion of the Transcucation Ropublice, On the corselion of the Transcucation Ropublice, On the corselion of the Transcucation Ropublice,	comessing the series, E. P. Program (1212) spoke on the comessing the series, E. Program (1212) spoke on the character, E. J. Franchill and The attorphers above the Ambractices, E. J. Franchill and The Ambractices, E. J. Franchill and The Carrelation processes above franceacais, E. J. Zakhandrill separated on the Typicianton of symptical processes carried out by Am. E. Englaids rad to pept on theoretical questions of dynamic selection of symptical processes carried questions of dynamic selection of symptical processes carried questions of dynamic selection of symptical processes of precipitation of the Englaids rad to persent facts of the Tight extent hall, E. Larchillar spoke on the great of the Tight expectation of the selection of the Select	where supply in floods, Q. T. Fatturbows (Cinzia of the Augustance States and Augustance States Augustance Augustance States Augustance
		The second of th
)(7) Avenar Titles Priodicals Abstacts	(S. 173)	Cert 3/5

POLYAKOVA, Ye, A.

Investigation of meteorological visibility during rainfalls.

Trudy GGO no.100:45-52 '60. (MIRA 13:6)

(Visibility) (Rain and rainfall)

POLYAKOVA, Ye.A.; TRET'YAKOV, V.D.

Investigation of meteorological visibility during snowfalls.
Trudy GGO no.100:53-57 '60. (MIRA 13:6)

(Visibility) (Snow)

AUTHOR:

Polyakova, Ye.A.

TITLE:

General session of the Scientific Council of the A.I.

Voyeykov Central Geophysical Observatory

PERIODICAL: Meteorologiya i gidrologiya, no. 5, 1961, 60-61

TEXT: The session of the Scientific Council devoted to the results of scientific research completed in 1960 took place on January 20-27, 1961, in the Glavnaya geofizicheskaya observatoriya (Central Geophysical Observatory (CGO)). At this session the staff of the CGO read 13 papers and 6 informative communications. In addition, in connection with the new duties bestowed on the CGO the reports of local scientific-research hydrometeorological institutes were given at the general session. This ended with a general meeting devoted to the work of Professor Ye.S. Rubinshteyn on the occasion of her 70th birthday and her 45 years of scientific activity.

Card 1/5

General session of the ...

T.V. Pokrovskaya read a paper on the scientific biography of Ye.S. Rubinshteyn, who herself mentioned some results from her monograph on thermal regimes. Representatives of 68 organizations participated in the work of the general session, including those from institutes of the Academy of Sciences, scientific establishments and local branches of the Hydrometeorological Survey and the Moscow, Leningrad, L'vov, Latvian and other universities. On the first day of the meeting, after the opening address of the Director of the CGO -- M.I. Budyko, results were heard of two theoretical investigations, whose aim was the development of numerical methods of forecasting: "Numerical forecasting of the relative humidity and height of the lower cloud base" by M.Ye. Shvets, and "The study of the conditions of formation and dispersion of fog and the development of a method for their forecasting" by M.Ye. Berlyand. D.L. Laykhtman's paper "Theoretical development of criteria for turbulence hazards to aircraft in the upper half of the troposphere and lower part of the stratosphere" was heard on the second day. Noting

Card 2/5

General session of the ...

the high scientific level of this work, the Scientific Council recommended a wider verification of the results obtained by these experimental data. The next paper by Ye.M. Sal'man -- "Development of a method of radiolocational observations for the operational service of aviation" -- was devoted to a major experimental work. The author spoke of the possibilities which the meteorological utilization of a complex radar station could have for practical meteorology. The evening session on January 24 was devoted to two papers from the laboratory directed by Ye.S. Selezneva: "The investigation of the chemical composition of rainwater", and "Patterns of vertical distribution of condensed nuclei under different atmospheric conditions". Both these papers, as well as the one by G.P. Gushchin -- "Investigation of atmospheric ozone" (read the next day), are based on the data of network observations carried out during the IGY. The results of work at the CGO in the field of climatology were presented at the morning session on January 25. The main prognostic conclusion of the work of L.A. Vitel's from

Card 3/5

General session of the ...

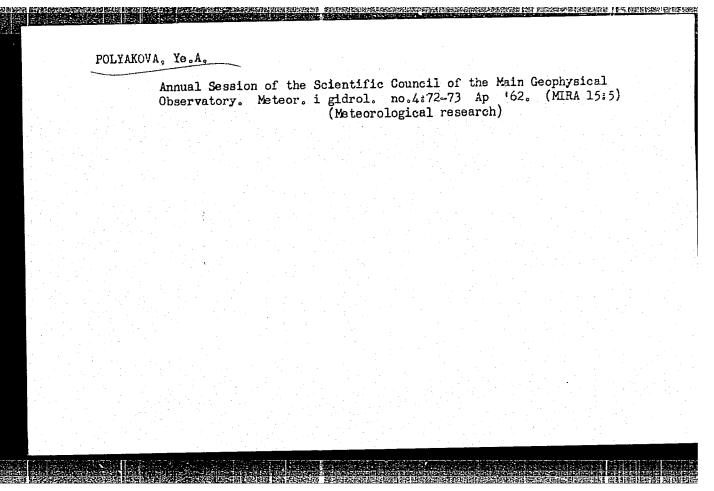
the joint topic "Long-term climatic fluctuations and the change in the weather conditions in the European part of the USSR and Western Siberia" is the expected cooling of the climate in the next period of approximately 50 years. The paper presented by I.A. Gol'tsberg in the form of a monograph "Study of the microclimate of hilly terrain in different climatic environments of the USSR and its influence on the state of agriculture" was evaluated by and its influence on the state of agriculture was evaluated by the critics as a "fundamental work of much scientific and practical value". O.M. Chelpanova and V.Ya. Sharova presented maps of air-pressure and air-temperatures anomalies and the amount of rainfall in the Northern Hemisphere. On January 25, methodological research at the CGO was considered in a paper by V.A. Gavrilov — search at the CGO was considered in a paper by V.A. Gavrilov — "Determination of the inclined visibility range"; this was continued the next day in a paper by a group of authors headed by N. P. Rusin — "Improvement of methods of meteorological observation", in another paper by N.V. Kucherov — "Hethods of wind measurement on board ship" and in information reports. Papers by I.Ye.

Card 4/5

General session of the ...

Buchinskiy (Ukr. NIGMI) -- "Climatic investigation of atmospheric drought in the Ukraine", by B.A. Ayzenshtat (SANIGMI) -- "Thermal balance of the basic landscapes of Central Asia" and by E.V. Sukhishvili (Tiflis NIGMI) -- "Distribution of the calculated wind velocities of Trans-Caucasia", were read on January 27. On February 6-8, after the general session of the Scientific Council, there was a conference of younger specialists and post-graduates of the CGO at the observatory when 16 scientific papers on problems of dynamic meteorology, radiation research, the chemistry of the atmosphere, climatology and other routine questions were read Abstractor's note: These papers are not mentioned here specifically.

Card 5/5



BARTENEVA, O. D.; FOLYAKOVA, Ye. A.

"Study of extinction and scattering of light in hazes, fogs and precipitations."

report presented at the Atmospheric Radiation Symp, Leningrad, 5-12 Aug 64.

BELOGUROV, Yu.A.; BELYAYEV, A.F.; VISHNEVSKIY, P.; ZAKHAROV, V.N.; KAGANER, M.; MARGOLIN, L.M.; PASHKOV, Yu.S.; POLYAKOVA, Ye.A. SMIRNOVA, S.I.

In the Main Administration of the Hydrometeorological Service. Meteor. i gidrol. no.6:52 Je *64 (MIRA 17:8)

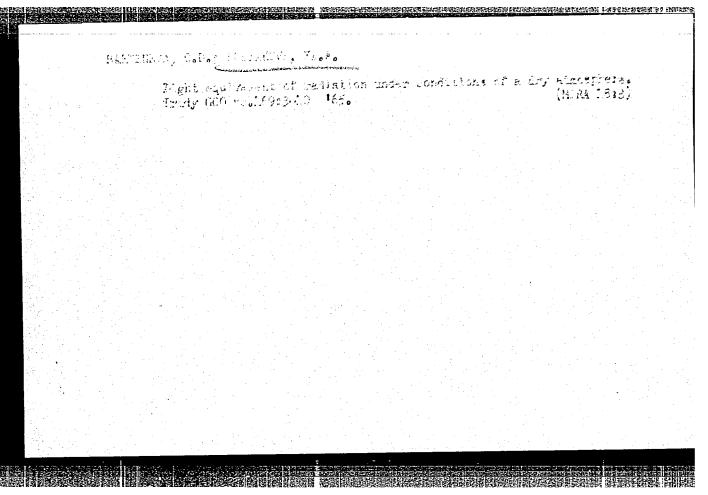
In the institutions of the Hydrometeorological Service. Ibid.: 63.

Meetings, conferences, seminars. Ibid.:63-64

Abroad. Tbid.:64.

L 37179-66 ENT(1)/FCC GN	
ACC NR. AP6027807 SOURCE CODE: UR/0050/66/000/002/6019/	0022
AUTHOR: Bartoneva, O. D. (Candidate of physicomathematical sciences); Polyakova, A. (Candidate of physicomathematical sciences)	Yc.
ORG: Main Goophysical Observatory, Moscow (Glavnaya geofizicheskaya observatoriy	a)
TITIE: Light equivalent of radiation	
SOURCE: Meteorologiya i gidrologiya, no. 2, 1966, 19-22	
TOPIC TAGS: solar radiation, atmospheric optic phenomenon, practical meteorology	r
ABSTRACT: The light equivalent of radiation is the ratio of the value of illumination in thousands of lux to the simultaneous value on the intensity of solar radiation in cal cm-2min-1. In this study an investigation was made to determine the possibility of using a constant value of the light equivalent for different points with different meteorological conditions: such as differences in the values of the light equivalent at stations over which the atmosphere is characterized by a higher or lower humidity, that is, differences in true absorption by water vapor and aerosols of different type. Such studies were made in the Pamirs in 1963 and near Leningrad in 1964; the meteorological parameters in the two areas were considerably different. This is the first time such a comparison has been made.	
Card 1/2 UDC: 551.521	10

lent could be ing and the ot be used when contact sur	e data revealed the recommended for all her relationships computing the normal face and compilations.	ll geographica and data pres al values of c ion of maps of	al latitudes. sented in the daytime illum [light clima	This find- article can ination of a te on the	0
hasis of data not be used for Orig. art. has:	from actinometric r solar altitudes 2 figures and 1 04 / SUBM DATE:	of less than table. JPRS	owever, the r 5° above the	esults can- ; horison.	004



RULIKOVA, G.I.; PALAGIN, E.G.; HOLYAKOVA, Ye.A.; CALUMAN, Ye.G.

Possibility of reder determination of the neteorological limit of visibility in clouds. Trudy GGO no.173:72-75 165.

(MIPA 38:3)

BARTENEVA, O.D.; POLYAKOVA, YG.A.

Study of the attenuation and scattering of light in natural fog due to its microphysical properties. Izv. AN SSSR. Fiz. atm. i okeana 1 no.2:193-207 F '65. (MIRA 18:5)

1. Glavnaya geofizicheskaya observatoriya imeni Voyeykova.

IL 52727-65 FSS-2/EWT(1)/EWG(v)/FCC/EEC(t)/EED-2 Pm-A/Pn-4/Pe-5/Pac-4/ P1-4/P1-4/Pk-4/P1-4 RB/GN/VIR UR/2531/65/000/173/0071/0075 ACCESSION NR: AT5012363 AUTHOR: Kulikova, G. I.; Palagin, E. G.; Polyakova, Ye. A.; Sal'man, Ye. M. didate of physico-mathematical sciences) TITIE: The feasibility of radar determination of meteorological visibility in fogs SOURCE: Leningrad. Glavnaya geofizicheskaya observatoriya. Trudy, no. 173, 1965. Voprosy radiometeorologii (Problems in radiometeorology), 71-75 TOPIC TAGS: fog visibility, fog water content, fog transparency, fog reflectance, meteorological radar, drop size ABSTRACT: The authors investigated the applicability of radar to the measurement of meteorological visibility in fog. The feasibility of fog observation at short distances (1-5 km) is established, and, on the basis of special microphysical investigations of various types of fog occurring over Vayekova in the July-October period of 1961, tables and figures are given presenting the correlations 1) between the water content, transparency coefficient, reflectance, and meteorological visibility distance; and 2) between the visibility (in arbitrary units) and the fog reflectance (in mm6/m3). The authors emphasize, however, that for the practical realization of radar visibility measurements in for one would have to design better. meteorological radar equipment and carry out more precise measurements relating the Card 1/2

L 52727-65 ACCESSION NR: AT5012363		
radar and optical charact and 2 tables.	teristics of fog. Orig. art.	has: 7 formulas, 2 figures,
ASSOCIATION: Glavnaya go Observatory)	eofizicheskaya observatoriya,	Leningrad (Main Geophysical
SURMITTED: 00	ENCL: 00	SUB CODE: ES, DC
NO REF SOV: 003	OTHER: 000	ATD PRESS: 4011
10.0		
XXX Cord 2/2		

L 52553-65 ENT(1)/ENG(v)/FCC	/EEC(t) Pe-5/Pi-L GW
ACCESSION NR: AP5009236	UR/0362/65/001/002/0193/0207 28 20
AUTHOR: Barteneva, O. D., Poly	yakova, Ye. A.
SOURCE: AN SSSR. Izvestiya. I TOPIC TAGS: fog light attenuation fog transparency, fog water content of the standard of the option of the spectra of data on the spectra of droplet of the standard of the attenuation coefficients of the attenuation coeffici	and scattering of light in natural fog due to its micro- Fizika atmosfery i okeana, v. 1, no. 2, 1965, 193-207 In, fog light scattering, fog microphysical property, int, scattering indicatrix Ical properties of fog involves the study of the optical sarticles and the turbid medium as a whole. A basic difference on of the optical properties of fog is due to the absence limensions. To fill the fog information gap, measurent, scattering indicatrix, and microstructure of natural icasus) and Voyeykovo (Leningrad oblast) during 1961-1962, imultaneous optical and microphysical measurements the elationships between the transparency and the water concepts of the fog microstructural parameters from

these two integral characteristics is shown, and the scattering indicatrix in fog and dense haze is calculated. The classification of some newly obtained indicatrices according to shape is related to the microphysical characteristics of fog and to the previously proposed classifications (O. D. Barteneva, Izv. AN SSSR, ser. geofiz., no. 12, 1960; W. D. Chesterman, W. S. Stils, Symposium on searchlights, Illum. Eng. Soc. London, 1948) for Chesterman, W. S. Stils, Symposium on searchlights, Illum. Eng. Soc. London, 1948) for all/transparency values, "A. N. Boyarova, T. F. Selezneva, N. M. Gorb, L. A. Smovzi and B. N. Fedorov participated in the investigation. The authors thank L. M. Levin and S. L. Sarkisov for their help and advice during the organization of the microphysical measurements. Orig. art. has: 6 formulas, 5 figures, and 3 tables. ASSOCIATION: Glavnaya geofizicheskaya observatoriya im. A. I. Voyeykova (Main Geophysical Observatory) SUBMITTED: 13Feb64 ENCL: 00 SUB CODE: ES, OP NO REF SOV: 024 OTHER: 007	L 52553=65		
SUBMITTED: 13Feb64 ENCL: 00 SUB CODE; ES, OP	these two integral characteristics haze is calculated. The classific shape is related to the microphysiclassifications (O. D. Barteneva, Chesterman, W. S. Stils, Sympos	cal characteristics of fog and Izv. AN SSSR, ser. geofiz., itum on searchlights, Illum. I	to the previously proposed no. 12, 1960; W. D. Eng. Soc. London, 1948) for N. M. Gorb, L. A. Smovz
NO REF SOV: 024 OTHER: 007	and B. N. Fedorov participated in S. L. Sarkisov for their help and measurements. Orig. art. has: 6 ASSOCIATION: Glavnaya geofizi	advice during the organization formulas, 5 figures, and 3 t	n of the microphysical ables.
	and B. N. Fedorov participated in S. L. Sarkisov for their help and measurements. Orig. art. has: 6 ASSOCIATION: Glavnaya geofizit Geophysical Observatory)	advice during the organization formulas, 5 figures, and 3 t cheskaya observatoriya im. A	of the microphysical ables. I. Voyeykova (<u>Main</u>
	and B. N. Fedorov participated in S. L. Sarkisov for their help and measurements. Orig. art. has: 6 ASSOCIATION: Glavnaya geofizit Geophysical Observatory) SUBMITTED: 13Feb64	advice during the organization 5 formulas, 5 figures, and 3 t cheskaya observatoriya im. A ENCL: 00	of the microphysical ables. I. Voyeykova (<u>Main</u>

MIKHAYLOV, N.P.; POLYAKOVA, Ye.D.

Incorrectly isolated type of diamond primary deposits. Sov. geol. 2 no.6:134-135 Je 159. (MIRA 12:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy geologicheskiy institut (VSECEI). (Diamonds)

PCLYAKOVA, YF. G.: "A hygienic evaluation of various types of water supply under the conditions of the populated agricultural localities of Seretov

Oblest." Seratov, 1955. Min Health RSFSR. Saratov State Medical Inst. (Dissertation for the Degree of Candidate of Medical Sciences)

SG: Knizhnava Letopis! No. 47, 19 November 1955. Moscow.

SOKOLOV, V.L.; BUSH, E.A.; KRICHEVSKIY, G.N.; MEDVEDEV, N.F.; FOLYAKOVA, Ye.G.

Structure of the subsalt Paleozoic in the Caspian Lowland, Dokl. AN SSSR 162 no.6:1370-1373 Je '65. (MIRA 18:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut prirodnogo gaza. Submitted April 3, 1964.

POLYAKOVA, Yelena Genrikhovna

Hygienical (otsenka) of Different Types of Water Sources in Conditions of Rural Population Localities of the Saratov Region

Dissertation for candidate of a Medical Science degree. Saratov Sanitation-Hygiene Institute, 1956